

Attorney Docket No.: 6809.230-US  
Filed: January 30, 2004  
Via Facsimile No.: 571-273-8300

Application Serial No.: 10/788,371  
Inventors: Igor Gonda et al.

## IN THE ABSTRACT

Please amend Abstract as follows:

The need for the delivery of insulin by injection can be reduced or eliminated by delivering an aerosolized ~~monomeric insulin formulation~~. Repeatability of dosing ~~and more particularly the repeatability of the blood concentration versus time profile~~ is obtainable by using either regular insulin or monomeric insulin, ~~are improved relative to regular insulin~~. When delivering insulin (not monomeric) by inhalation, the total inhaled volume should be about the same at each delivery to obtain repeatable results. The patient can be coached (by teaching) to inhale a given amount of air and can also be coached (by teaching) to inhale at a given flow rate. The blood concentration versus time profile is substantially unaffected by specific aspects of the patient's breathing maneuver at delivery. Further, the rate at which blood glucose is lowered is increased by the use of monomeric insulin. Particles of insulin and ~~in particular~~ monomeric insulin delivered to the surface of lung tissue will be absorbed into the circulatory system. ~~The monomeric insulin may be a~~ A dry powder or but is preferably in a liquid insulin formulation is delivered to the patient from a mechanical or electronic hand-held, self-contained device which automatically releases an aerosolized burst of formulation. The device includes a sensor which is preferably electronic which measures inspiratory flow and volume which measurement can be used to control the point of drug release.